

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): An image processing system, ~~comprising a client apparatus connected with a communication network, wherein~~ comprising:

[[the]] a client apparatus connected with a communication network, the client apparatus including ~~comprises~~

a storing part ~~storing~~ configured to store a reversible code which is obtained by reversibly compressing and coding an original image according to a predetermined coding algorithm ~~[[way]]~~ having a hierarchy configuration from a reversible part through a non-reversible part;

an altering part ~~generating~~ configured to generate, from the reversible code, a non-reversible code;

an editing part configured to perform an editing operation on a non-reversible code image obtained from decoding the non-reversible code, to store the editing operation, and to apply the editing operation to the reversible code;

a transmission part ~~transmitting~~ configured to transmit ~~the either the~~ reversible or non-reversible code, or ~~the an~~ image ~~itself~~ obtained from decoding the reversible code or non-reversible same code, to a predetermined transmission destination; and

a selecting part configured to selectively ~~performing~~ perform transmission of the non-reversible code or the reversible code, or the image obtained from decoding the reversible code or the non-reversible code therefrom.

Claim 2 (Currently Amended): The image processing system as claimed in claim 1, wherein:

the coding algorithm ~~comprises~~ is a method according to JPEG 2000.

Claim 3 (Cancelled).

Claim 4 (Currently Amended): The image processing system as claimed in claim 1, wherein:

the selecting part ~~transmits~~ is configured to transmit the reversible code having information indicating ~~the~~ contents of operation of editing or modifying ~~the~~ image data attached thereto.

Claim 5 (Currently Amended): The image processing system as claimed in claim 1, wherein:

the client apparatus ~~comprises~~ includes a determining part ~~for determining~~ configured to determine whether ~~the~~ contents of operation of editing or modifying for ~~the~~ image data are actually reflected on the image data in a ~~the~~ form of reversible code or the original image by ~~the~~ an own apparatus or by another ~~externally~~ external apparatus; and

the selecting part, when a determination is made by said determining part that the contents of operation of editing or modifying for the image data are actually reflected on the image data in the form of the reversible code or the original image by another external apparatus, ~~transmits~~ configured to transmit the reversible code having information indicating the contents of operation of editing or modifying the image data attached thereto.

Claim 6 (Currently Amended): The image processing system as claimed in claim 1, further comprising a server apparatus which is also connected with ~~the~~ a predetermined communication network,

wherein:

when receiving information indicating ~~[[the]]~~ contents of operation of editing or modifying ~~[[the]]~~ image data attached, the server apparatus ~~performs~~ is configured to perform processing of actually reflecting the contents of operation of editing or modifying on the image data in the form of the reversible code or the original image according to the information ~~[[thus]]~~ received.

Claim 7 (Currently Amended): An image forming apparatus, comprising:

a coding part configured to reversibly compressing compress and coding code an original image according to a predetermined coding ~~[[way]]~~ algorithm having a hierarchy configuration from a reversible part through a non-reversible part to generate a reversible code;

a storing part ~~storing~~ configured to store the reversible code;

a decoding part ~~decoding~~ configured to decode the reversible code;

a printer engine ~~performing~~ configured to perform image formation on a medium based on ~~the decoded~~ the reversible code image;

an altering part ~~generating~~ configured to generate a non-reversible code from the reversible code stored;

an editing part configured to perform an editing operation on a non-reversible code image obtained from decoding the non-reversible code, to store the editing operation, and to apply the editing operation to the reversible code;

a transmission part ~~transmitting~~ configured to transmit ~~[[the]]~~ either the reversible or non-reversible code, or ~~the~~ an image data of the reversible code image or non-reversible code obtained from decoding the reversible code or non-reversible code by said decoding part, to a predetermined transmission destination; and

a selecting part configured to selectively performing perform transmission of ~~the data~~
the reversible code image or non-reversible code image in ~~[[the]]~~ a form of the non-reversible
code or in ~~[[the]]~~ a form of the reversible code ~~[[thus]]~~ generated, or the reversible code ~~itself~~.

Claim 8 (Currently Amended): The image forming apparatus as claimed in claim 7,
wherein:

said selecting part is configured to transmit ~~transmits~~ the image data in the form of the
reversible code when the image data in the form of the reversible code ~~[[it]]~~ is provided to the
printer engine.

Claim 9 (Currently Amended): The image forming apparatus as claimed in claim 7,
wherein:

said selecting part ~~transmits~~ is configured to transmit the image data in ~~[[the]]~~ a form
of the non-reversible code when the image data in the form of the non-reversible code ~~[[it]]~~ is
used for displaying the image data on a display device of either another external apparatus or
in ~~[[the]]~~ an own apparatus for the purpose of performing an operation of editing or
modifying the image data.

Claim 10 (Currently Amended): The image forming apparatus as claimed in claim 7,
wherein:

said coding part ~~applies~~ is configured to apply a method according to JPEG 2000 for
the predetermined coding way algorithm.

Claim 11 (Currently Amended): The image forming apparatus as claimed in claim ~~[[1]]~~ 7, further comprising an image input device ~~reading~~ configured to read the an original image, wherein:

said coding part ~~performs~~ is configured to perform the compression and coding on an image read in by said image input ~~[[part]]~~ device.

Claim 12 (Currently Amended): A computer readable ~~program causing a computer to perform~~ storage medium encoded with instructions, which when executed by a computer cause the computer to execute a method comprising:

~~a storing step of~~ storing a reversible code which is obtained by reversibly compressing and coding an original image according to a predetermined coding ~~[[way]]~~ algorithm having a hierarchy configuration from a reversible part through a non-reversible part;

~~an altering step of~~ generating, from the reversible code, a non-reversible code;

performing an editing operation on a non-reversible code image obtained from decoding the non-reversible code;

storing the editing operation;

applying the editing operation to the reversible code;

~~a transmission step of~~ transmitting the either the reversible or non-reversible code, ~~or the an~~ image obtained from decoding the reversible code, or the image obtained from decoding the non-reversible code, to a predetermined transmission destination; and

~~a selecting step of~~ selectively performing transmission of the non-reversible code or the reversible code, ~~or the image obtained therefrom~~ from decoding the reversible code or the image obtained from decoding the non-reversible code.

Claim 13 (Currently Amended): The computer readable ~~program~~ storage medium as claimed in claim 12, wherein:

in said ~~selecting step~~ selectively performing transmission, the image data in the a form of the reversible code is transmitted when it is provided for being used for printing processing.

Claim 14 (Currently Amended): The computer readable ~~program~~ storage medium as claimed in claim 12, wherein:

in said ~~selecting step~~ selectively performing transmission, the image data in the a form of the non-reversible code is transmitted when it is used for displaying the image data in a display device for the purpose of performing an operation of editing or modifying the image data.

Claim 15 (Currently Amended): The computer readable ~~program~~ storage medium as claimed in claim 12, wherein:

in said ~~altering step~~ generating, a method according to JPEG 2000 is applied for the predetermined coding [[way]] algorithm.

Claims 16-19 (Canceled).

Claim 20 (Currently Amended): An image processing method, comprising:

~~a storing step of~~ storing a reversible code which is obtained by reversibly compressing and coding an original image according to a predetermined coding [[way]] algorithm having a hierarchy configuration from a reversible part through a non-reversible part;

~~an altering step of~~ generating, from the reversible code, a non-reversible code;

performing an editing operation on a non-reversible code image obtained from
decoding the non-reversible code;
storing the editing operation;
applying the editing operation to the reversible code;
~~a transmission step of~~ transmitting the either the reversible or non-reversible code, ~~or~~
the a reversible code image obtained from decoding the reversible code, or the non-reversible
code image obtained from decoding the non-reversible code, to a predetermined transmission
destination; and
~~a selecting step of~~ selectively performing transmission of the non-reversible code or
the reversible code, ~~or~~ the image obtained from decoding the reversible code or the image
obtained from decoding the non-reversible code ~~therefrom~~.

Claim 21 (Currently Amended): The image processing method as claimed in claim
20, wherein:

in said ~~selecting step~~selectively performing transmission, the image data in a [[the]]
form of the reversible code is transmitted when it is provided for being used for printing
processing.

Claim 22 (Currently Amended): The image processing method as claimed in claim
20, wherein:

in said ~~selecting step~~selectively performing transmission, the image data in a [[the]]
form of the non-reversible code is transmitted when it is used for displaying the image data in
a display device for the purpose of performing an operation of editing or modifying the image
data.

Claim 23 (Currently Amended): The image processing method as claimed in claim 20, wherein:

in said ~~altering step~~ generating, a method according to JPEG 2000 is applied for the predetermined coding ~~[[way]]~~ algorithm.

Claim 24 (Currently Amended): An image processing method using a client apparatus connected with a communication network, wherein:

the client performs:

~~a storing step of~~ storing a reversible code which is obtained by reversibly compressing and coding an original image according to a predetermined coding ~~[[way]]~~ algorithm having a hierarchy configuration from a reversible part through a non-reversible part;

~~an altering step of~~ generating, from the reversible code, a non-reversible code;

performing an editing operation on a non-reversible code image obtained from decoding the non-reversible code;

storing the editing operation;

applying the editing operation to the reversible code;

~~a transmission step of~~ transmitting the either the reversible or non-reversible code, or ~~the~~ a reversible code image obtained from decoding the reversible code, or the non-reversible code image obtained from decoding the non-reversible code, to a predetermined transmission destination; and

~~a selecting step of~~ selectively performing transmission of the non-reversible code or the reversible code, ~~or~~ the image obtained from decoding the reversible code or the image obtained from decoding the non-reversible code ~~therefrom~~.

Claim 25 (Currently Amended): The image processing method as claimed in claim 24, wherein:

in said ~~altering step~~generating, a method according to JPEG 2000 is applied for the predetermined coding ~~[[way]]~~ algorithm.

Claim 26 (Currently Amended): The image processing method as claimed in claim 24, wherein:

in said ~~selecting step~~selectively performing transmission, the image data in ~~the~~ a form of the non-reversible code is performed when, in the client apparatus, the image data is displayed with a use of the generated code ~~[[thus]]~~ transmitted, and therewith, operation of editing or modifying is performed on the image data.

Claim 27 (Currently Amended): The image processing method as claimed in claim 24, wherein:

in said ~~selecting step~~selectively performing transmission, the reversible code having information indicating the contents of operation of editing or modifying ~~the~~ image data attached thereto is transmitted.

Claim 28 (Currently Amended): The image processing method as claimed in claim 24, wherein:

the client apparatus ~~performs a determining step of determining~~ determines whether the contents of the editing operation ~~of editing or modifying for the image data~~ are actually reflected on the image data in the form of the reversible code or the original image by ~~[[the]]~~ an own apparatus or by another ~~externally~~ external apparatus; and

in the ~~selecting step~~selectively performing transmission, when a determination is made in ~~said determining step~~ that the contents of ~~operation of the~~ editing operation or modifying for the image data are actually reflected on the image data in the form of the reversible code or the original image by the another ~~externally~~ external apparatus, the reversible code having information indicating the contents of operation of editing or modifying for the image data attached thereto is transmitted.

Claim 29 (Currently Amended): The image processing method as claimed in claim 24, wherein:

when information indicating ~~the~~ contents of ~~operation of the~~ editing operation or modifying the image data is received in a server apparatus which is also connected with the predetermined communication network from the client apparatus, processing ~~[[of]]~~ actually reflecting the contents of operation of editing or modifying on the image data in the form of the reversible code or the original image according to the information ~~[[thus]]~~ received is performed.

Claim 30 (New): The image processing system as claimed in claim 1, further comprising:

a decoding part configured to decode all of the reversible code, and the editing part is configured to apply the editing operation to an image obtained from decoding all of the reversible code.

Claim 31 (New): The image processing system as claimed in claim 1, further comprising:

a decoding part configured to decode less than all of the reversible code, and the editing part is configured to apply the editing operation to an image obtained from decoding the portion of the reversible code.